

AMH

Unocal Corporation
Diversified Businesses
2300 Barrington Road, Suite 500
Hoffman Estates, Illinois 60195
Telephone (847) 310-6809
Facsimile (847) 310-6890



Christopher A. Meyer
Senior Engineer
Environmental Remediation Services

May 15, 1997

RECEIVED
N.C. Dept. of EHNR
JUN 02 1997
Winston-Salem
Mr. Waddell Watters Regional Office
Groundwater Section DEM
NCDEHNR
8025 North Point Blvd., Suite 100
Winston Salem, NC 27106

Subject: Unocal Corporation
Former Red Horse Truckstop
1342 Trollingwood Road, Mebane NC

Dear Mr. Watters:

Unocal Corporation submits herein the semi-annual groundwater sampling analytical results and remediation system status report. The report includes the February 8, 1997 semi-annual groundwater analytical results for the five monitor wells on-site and the adjacent Williams private water supply well. If you have any questions or need additional information, please do not hesitate to call.

Sincerely,

Chris Meyer SMH

Christopher A. Meyer

cc: Stewart Hines, L.G. - S&ME, Inc.

RECEIVED
N.C. Dept. of EHNR
JUN 02 1997
Winston-Salem
Regional Office

**SEMI-ANNUAL GROUNDWATER SAMPLING
& REMEDIATION STATUS REPORT**

Incident No. 10119, Priority Ranking 70/B
Former Unocal Corporation Site #9787-214
1342 Trollingwood Road, Mebane, NC
S&ME Project No. 1354-94-603

Prepared For:

North Carolina Department of Environment,
Health and Natural Resources
Winston-Salem Regional Office-Groundwater Section
8025 North Point Blvd., Suite 100
Winston-Salem, NC 27106

Prepared By:

S&ME, Inc.
9751 Southern Pine Blvd., PO Box 7668
Charlotte, NC 28273

March 1997



March 11, 1997

Mr. Waddell Watters
North Carolina Department of Environment,
Health and Natural Resources
Winston-Salem Regional Office-Groundwater Section
8025 North Point Blvd., Suite 100
Winston-Salem, NC 27106

Reference: February 1997 Semi-Annual Groundwater Sampling and Remediation Status Report
Incident No. 10119, Priority Ranking 70/B
Unocal Corporation Facility #9787-214
Former Red Horse Truckstop
1342 Trollingwood Road, Mebane, Alamance Co., NC
S&ME Project No. 1354-94-603

Dear Mr. Watters:

S&ME, Inc. (S&ME), on behalf of Unocal Corporation (Unocal) provides herein the semi-annual groundwater sampling results and status of remediation activities at the subject groundwater incident site #10119. This report includes the February 8, 1997 semi-annual groundwater analytical results for the five monitor wells on-site (MW-3, MW-4, DMW-5, MW-7 and MW-8) and for the adjacent Williams private water supply well. The documented release was from unleaded gasoline and diesel sources, and therefore, lead and EDB analyses were not performed.

Figure 1 is a revised site map illustrating the new Emro Marketing Company (Speedway/Starvin Marvin) truck stop, monitor well and Unocal Corporation remediation system network, new utilities, property lines and minor changes made to the Unocal remediation system. These changes included closing three monitor wells (MW-1, MW-2 and MW-6) and four air sparge wells (AS-2, AS-3, AS-4 and AS-7). These seven wells were closed with grout due to interference with the construction of the new Speedway truck stop. Closing these wells should not dramatically affect our ability to monitor or remediate the remaining hydrocarbon plume. None of the existing subsurface

remediation piping was removed. Five vertical air sparging wells (AS-1, AS-5, AS-6, MW-4 and DMW-5) are still in use on a daily 12-hour cyclic basis. Monitor wells MW-4 and DMW-5 were converted into dual monitor/sparge wells on August 19, 1994 and May 9, 1996, respectively. A 3/4-inch rubber air line was placed under ground from AS-6 to MW-4, as shown in Figure 1.

A downgradient, Type II monitor well (MW-8) was installed at the northwest property corner (see Figure 1) on August 5, 1996 to monitor the downgradient extent of the groundwater plume, per the State's request. A completed well construction record (GW-1 form) for MW-8 was included in the August 19, 1996 semi-annual report.

S&ME received state approval for re-ranking of the site from a 70/D to a 70/B site due to the adjacent Williams private well. S&ME confirmed that the adjacent Williams well is in use, within 1500 feet of the Unocal site, and that the Williams are not served by public water supply.

Groundwater Surface Levels

Groundwater surface levels were measured on February 8, 1997 prior to well sampling with the sparging system off. The groundwater surface level data obtained on this date is summarized in Table 1 during static (sparging off) conditions. Figure 1 illustrates that groundwater flow on February 8, 1997 is north-northwesterly under an average hydraulic gradient of 0.025.

Groundwater Quality

S&ME sampled groundwater from five monitor wells (MW-3, MW-4, DMW-5, MW-7 and MW-8) on February 8, 1997, as part of the semi-annual sampling event. Individual,

disposable polyethylene bailers and clean nylon rope were used for sampling groundwater from each of the monitor wells. A water sample was also collected from the spigot closest to the Williams well. The water was purged for approximately 5 minutes prior to sampling.

The groundwater samples were analyzed for aromatic organics [including benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butylether (MTBE) and isopropylether (IPE)] by EPA Method 602, halogenated organics by EPA Method 601 and polynuclear aromatic hydrocarbons by EPA Method 610. All analyses were performed by a NC certified laboratory (#296); Flowers Chemical Laboratory of Altamonte Springs, FL. A copy of the laboratory results is attached. Table 2 summarizes historical and the most recent groundwater quality data.

The recent groundwater quality data compared to the previous 1996 sampling events, indicates reduced dissolved BTEX and MTBE concentrations at MW-3, DMW-5 and a slight increase at MW-4 and MW-8. Greatest dissolved hydrocarbon concentrations were measured in groundwater from MW-4 (82.6 ug/L BTEX and 654 ug/L of MTBE). MW-4 is in the former "hotspot" area and source of the gasoline release. MW-4 previously contained free product and elevated BTEX (98,000 ug/L) and MTBE (15,700 ug/L) concentrations. Monitor wells MW-3, DMW-5 and MW-8 contained low concentrations of dissolved hydrocarbons, as indicated in Table 2. The dissolved BTEX and MTBE plumes remained stable this period, as compared to last. The extent of contaminated groundwater is defined on-site.

IPE concentrations remained stable at below method detection levels, except for a slight increase at MW-3. Low levels of 1,2-dichloroethane (8.94 ug/L) were detected

in groundwater from MW-3, which is a slight increase from the previous 1996 sampling event. Groundwater 2L violations are highlighted in Table 2 and include the following: 3.7 ug/L of benzene at MW-4, 654 ug/L of MTBE at MW-4 and 8.94 ug/L of 1,2-dichloroethane at MW-3. Dissolved hydrocarbons in the remaining wells were below laboratory detection limits or 2L standards during this sampling event. Phase separated hydrocarbons have not been detected on site, since December 7, 1994.

Remediation System Status

At present, site remediation is performed by air sparging only. Air sparging has been very effective in remediation of subsurface hydrocarbons in groundwater on-site. At MW-4, combined BTEX and MTBE concentrations have been reduced from 110,000 ug/L on January 18, 1993 to 736.6 ug/L on February 8, 1997. The sparged air volatilizes and increases bioremediation of subsurface hydrocarbons by promoting growth of indigenous hydrocarbon degrading microorganisms.

The existing air sparging system continues to operate as designed with no mechanical problems. The air compressor is presently operating at 80 psi and 65 scfm (at compressor). Each of the five operating air sparge wells is operating at 35-40 psi and 10-20 scfm. The air sparging system has operated a total of approximately 12,000 hours (500 days) as of February 20, 1997. The air sparging radius of influence for each of the five vertical air sparge wells is approximately 50 to 80 feet, as measured by change in dissolved oxygen levels. The air sparging system is cycled for 12 hours per day by a single channel electronic timer.

The air sparging system will continue to be inspected on a weekly to bi-weekly basis. The next semi-annual groundwater sampling is scheduled for August 1997. No fugitive

Former Unocal Corp. Site #9787-214
Semi-Annual Groundwater Results and Remediation Status

S&ME Project No. 1354-94-603

March 11, 1997

hydrocarbon sparge vapors have been reported inside any utilities or the on-site building. Emro Marketing Company is currently building a new Speedway Truck Stop at the site, which has not interrupted our modified air sparging system.

If you have any questions or need additional information, please do not hesitate to call us at 704-523-4726.

Sincerely,

S&ME, Inc.

Stewart Hines
Stewart M. Hines, L.G.
Senior Hydrogeologist



Al Quarles snt
Al Quarles, L.G.
Senior Hydrogeologist

Enclosures

cc: Mr. Chris Meyer - Unocal Corporation
Rick Holshouser - S&ME, Inc.
Carol Wrenn - Emro Marketing Company (Current Property Owner)
Mr. Williams - adjacent private well owner (analyses only)

K:\SHARED\HINES\WATERS97.M03

TABLE 1

S&ME, INC.
LIQUID LEVELS
DATE: 2/8/97

SITE: UNOCAL-MEBANE #9787-214
JOB# 1354-94-603
RECORDED BY: GARY SIMCOX (S&ME)

| ID # | DTW | DTP | PT | ETW | ETP | ETC | WTE |
|-------|-------|------|------|-------|-----|--------|-------|
| MW-3 | 14.84 | 0.00 | 0.00 | 84.44 | NA | 99.28 | 84.44 |
| MW-4 | 14.70 | 0.00 | 0.00 | 83.90 | NA | 98.60 | 83.90 |
| DMW-5 | 13.71 | 0.00 | 0.00 | 83.40 | NA | 97.11 | 83.40 |
| MW-7 | 17.33 | 0.00 | 0.00 | 80.88 | NA | 98.21 | 80.88 |
| MW-8 | 19.61 | 0.00 | 0.00 | 80.86 | NA | 100.47 | 80.86 |

COMMENTS: Topographic survey of all wells was re-evaluated on 8/16/96

ALL MEASUREMENTS IN FEET

DTW=depth to water from top of casing

DTP=depth to product

ETC=elevation of top of casing (usu. assumed datum
of 98.21 feet from the former professional survey of MW-7

ETP=elevation of top of product

ETW=elevation of top of water

PT=product thickness

NA=Not Applicable

WTE=elevation of water table

BENCH MARK = MW-7, also elevation of fire hydrant bolt (black) is 100.83

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATA

FORMER UNOCAL FACILITY #9787-214
 1342 TROLLINGWOOD ROAD, MEBANE, NC
 S&ME PROJECT #1354-94-603

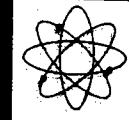
| MONITOR WELL | DATE | BENZENE | TOLUENE | ETHYL-BENZENE | TOTAL XYLENES | TOTAL BTEX | MTBE | IPE | METHOD 601 COMPOUNDS | METHOD 625/610 COMPOUNDS |
|---------------------------------------|----------|--|---------|---------------|---------------|------------|--------|------|----------------------|----------------------------|
| MW-1 (CLOSED) | 1/7/93 | BQL | 120 | BQL | 120 | 240 | NA | NA | NA | NA |
| | 1/18/93 | BQL | BQL | BQL | BQL | BQL | BQL | BQL | BQL | BQL |
| | 11/10/94 | BQL | BQL | BQL | BQL | BQL | BQL | NA | BQL | BQL |
| | 3/12/95 | BQL | BQL | BQL | BQL | BQL | 1.11 | BQL | BQL | BQL |
| | 12/18/95 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 2/21/96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 5/4/96 | MONITOR WELL CLOSED WITH GROUT DUE TO CONFLICT WITH NEW SPEEDWAY STATION PUMP ISLAND | | | | | | | | |
| MW-2 (CLOSED) | 1/7/93 | 810 | 20,000 | 17,000 | 95,000 | 132,810 | NA | NA | NA | NA |
| | 1/18/93 | 120 | 65 | 4.2 | 160 | 349.2 | BQL | BQL | 7.9 | 28 |
| | 11/10/94 | BQL | BQL | BQL | BQL | BQL | BQL | NA | BQL | BQL |
| | 3/12/95 | BQL | BQL | BQL | BQL | BQL | 1.5 | BQL | BQL | BQL |
| | 12/18/95 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 2/21/96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 5/4/96 | MONITOR WELL CLOSED WITH GROUT DUE TO CONFLICT WITH NEW SPEEDWAY STATION PUMP ISLAND | | | | | | | | |
| MW-3 | 1/7/93 | BQL | 1300 | 2100 | 13,000 | 16,400 | NA | NA | NA | NA |
| | 1/26/93 | 84 | 82 | 5.1 | 590 | 761.1 | BQL | BQL | 8.4 | 22 |
| | 11/10/94 | BQL | BQL | 18.5 | 184 | 203 | BQL | NA | 13.2 | BQL |
| | 3/12/95 | BQL | BQL | BQL | 1.52 | 1.52 | 0.54 | 1.73 | 3.38 | BQL |
| | 12/18/95 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | 7.53 | <1 |
| | 2/21/96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | 5.53 | <1 |
| | 8/5/96 | 85 | 4.01 | 3.34 | 465 | 557 | 11.7 | 9.58 | 31.4 | 12.6 |
| MW-4 | 11/22/96 | 5.1 | <1.5 | <1.5 | 2.72 | 7.82 | 1.53 | 4.83 | 8.68 | 3.13 |
| | 2/8/97 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | 4.30 | 11.3 | 8.94 - 1.2-DCA | <3 |
| | 1/11/93 | BQL | 1700 | 4900 | 31,000 | 37,800 | NA | NA | NA | NA |
| | 1/18/93 | 26,800 | 42,000 | 5200 | 24,000 | 98,000 | 12,000 | BQL | 6.8 | 6600 |
| | 11/10/94 | 22,100 | 40,100 | 4710 | 20,500 | 87,400 | 15,700 | NA | 29.3 | 431.5 |
| | 3/12/95 | 3150 | 4480 | 1830 | 2250 | 11,700 | 4370 | <1 | 33.09 | 2710 |
| | 12/18/95 | 2840 | 5700 | 1170 | 5310 | 15000 | 3750 | <1 | <5-50 | 787.58 |
| DMW-5 (TYPE III MW) | 2/21/96 | 821 | 1340 | 344 | 1990 | 4490 | 1810 | <1 | <5-50 | 119.3 |
| | 5/9/96 | WELL CONVERTED TO AN AIR SPARGE/MONITOR WELL | | | | | | | | |
| | 8/12/96 | 6.1 | 13.5 | <5 | 27.6 | 47.2 | 165 | <10 | <5-50 | <1 |
| | 11/26/96 | 4.59 | 16.2 | <3 | 37 | 60.3 | 410 | <6 | <3-30 | <3 |
| | 2/8/97 | 9.7 | 11.1 | 3.7 | 64.1 | 82.6 | 654 | <6 | <3-30 | <3 |
| | 3/24/93 | 55 | 95 | 20 | 120 | 290 | NA | NA | NA | NA |
| | 8/19/94 | WELL CONVERTED TO AN AIR SPARGE/MONITOR WELL | | | | | | | | |
| MW-6 (CLOSED) | 12/18/95 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 8/5/96 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | <1 | <0.5-5 | <1 |
| | 11/22/96 | <1.5 | 16.2 | <1.5 | <1.5 | 16.2 | <1.5 | <3 | BQL | BQL |
| | 2/8/97 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <3 | <3-15 | <3 |
| | 3/17/93 | BQL | BQL | BQL | BQL | BQL | BQL | BQL | BQL | BQL |
| | 11/10/94 | BQL | BQL | BQL | BQL | BQL | BQL | NA | BQL | BQL |
| | 3/12/95 | BQL | 1.61 | 0.754 | 4.16 | 6.52 | BQL | BQL | BQL | BQL |
| MW-7 | 12/18/95 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 2/21/96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 8/5/96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 11/22/96 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <3 | BQL | BQL |
| | 2/8/97 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <3 | <3-15 | <3 |
| | 3/8/93 | BQL | BQL | BQL | BQL | BQL | BQL | BQL | BQL | BQL |
| | 11/10/94 | BQL | BQL | BQL | BQL | BQL | BQL | NA | 1.4 | BQL |
| MW-8 | 3/12/95 | BQL | BQL | BQL | BQL | BQL | BQL | NA | 1.25 | BQL |
| | 12/18/95 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 2/21/96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 8/5/96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| | 11/22/96 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <3 | BQL | BQL |
| | 2/8/97 | <3 | <3 | <3 | <3 | <3 | 6.20 | <6 | <3-30 | <3 |
| | 8/12/96 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5-5 | <1 |
| WILLIAMS WELL | 11/22/96 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1 | <0.5-5 | <1 |
| | 2/8/97 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <3 | <3-15 | <3 |
| 15A NCAC 2L STANDARD (IN UG/L) | | 1 | 1000 | 29 | 530 | NA | 200 | 70 | 0.36 - 1.2-DCA | MDL - 2-methyl-naphthalene |

K:\SHARED\...\1696\UME\BWQ.QK1

NOTES:

- * ALL CONCENTRATIONS IN GROUNDWATER ARE IN UG/L (PPB)
- * ANALYSES PERFORMED=METHODS 602 (BTEX, MTBE AND IPE)
 METHOD 601 (PURGEABLE HALOCARBONS)
 METHOD 625 OR 610 (SEMI-VOLATILES)
- * NA = NOT ANALYZED
- * MDL = METHOD DETECTION LIMIT
- * BQL = BELOW QUANTITATION LIMIT
- * THE 15A NCAC 2L GROUNDWATER STANDARD FOR COMPOUNDS NOT INCLUDED IN THE STANDARD IS THE LABORATORY METHOD DETECTION LIMIT

1,2-DCA = 1,2-dichlorethane
 m. chloride = methylene chloride
 1-m. naph = 1-methyl-naphthalene
 2-m. naph = 2-methyl-naphthalene



Received From:

S&ME-Charlotte
P.O. Box 7668
Charlotte, NC 28241

Date Reported : Feb17 1997
Project Number : UNOCAFE835927785
PO Number : 9787-214
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA601 IPE602 PAH X610

Date Sampled:Feb 8 1997 Date Received:Feb11 1997 Lab Numbers: 12880-12885
REPORT OF ANALYSIS

| Parameter | Unit | NCPractical | %ACC | %PRC | 12880 MW3 | 12881 MW7 | 12882 MW8 | 12883 MW4 | 12884 DMW5 |
|----------------------------------|------|-------------|------|------|--------------|--------------|--------------|--------------|---------------|
| Quantitative Limit | | | | | | | | | |
| Dilution_Factor | | - | - | - | 1.00 | 1.00 | 2.00 | 2.00 | 1.00 |
| 1,1,1-trichloroethane ug/L | ug/L | 3.00 | 108. | .050 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| 1,1,2,2-tetrachloroethane ug/L | ug/L | 3.00 | 120. | 19.1 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| 1,1,2-trichloroethane ug/L | ug/L | 3.00 | 116. | 5.58 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| 1,1-dichloroethane ug/L | ug/L | 3.00 | 93.7 | 1.39 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| 1,1-dichloroethene ug/L | ug/L | 3.00 | 101. | 21.0 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| 1,2-dichloroethane ug/L | ug/L | 3.00 | 111. | 1.16 | 8.94 | <3.00 | <6.00 | <6.00 | <3.00 |
| 1,2-dichloropropane ug/L | ug/L | 3.00 | 111. | .010 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| 2-chloroethylvinylidene ug/L | ug/L | 3.00 | | | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Bromodichloromethane ug/L | ug/L | 3.00 | 117. | 1.01 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Bromoform ug/L | ug/L | 3.00 | 96.4 | 22.9 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| cis-1,3-dichloropropene ug/L | ug/L | 3.00 | 115. | 4.45 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Carbon tetrachloride ug/L | ug/L | 3.00 | 98.4 | 1.02 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Chloroform ug/L | ug/L | 3.00 | 103. | 1.01 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Dibromochloromethane ug/L | ug/L | 3.00 | 88.1 | 30.4 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Methylene chloride ug/L | ug/L | 3.00 | 88.2 | 1.23 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| trans-1,3,-dichloropropene ug/L | ug/L | 3.00 | 111. | 9.59 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Trichlorofluoromethane ug/L | ug/L | 6.00 | 105. | .200 | <6.00 | <6.00 | <12.0 | <12.0 | <6.00 |
| t-1,2-dichloroethene ug/L | ug/L | 3.00 | 80.4 | 7.32 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Trichloroethene ug/L | ug/L | 3.00 | 112. | 1.18 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Tetrachloroethene ug/L | ug/L | 3.00 | 118. | .810 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| 1,2-dibromo-3-chloropropane ug/L | ug/L | 3.00 | 120. | 20.5 | <3.00 | <3.00 | <6.00 | <6.00 | <3.00 |
| Bromomethane ug/L | ug/L | 15.0 | | | <15.0 | <15.0 | <30.0 | <30.0 | <15.0 |
| Chlorobenzene ug/L | ug/L | 1.50 | 118. | .530 | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| Chloroethane ug/L | ug/L | 9.00 | 107. | .130 | <9.00 | <9.00 | <18.0 | <18.0 | <9.00 |
| Chloromethane ug/L | ug/L | 15.0 | | | <15.0 | <15.0 | <30.0 | <30.0 | <15.0 |

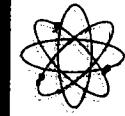
Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FCL QA and EPA approved methodology.
This Report may not be reproduced in part, results relate only to items tested.

Jefferson S. Flowers, Ph.D.

Serving Your Analytical and Environmental Needs Since 1957

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS: (407) 339-5984
FAX: (407) 260-6110



Received From:

S&ME-Charlotte
P.O. Box 7668
Charlotte, NC 28241

Date Reported : Feb17 1997
Project Number : UNOCAFE835927785
PO Number : 9787-214
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA601 IPE602 PAH X610

Date Sampled:Feb 8 1997 Date Received:Feb11 1997 Lab Numbers: 12880-12885
REPORT OF ANALYSIS

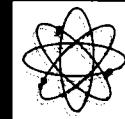
| Parameter | Unit | NCPractical | %ACC | %PRC | WILLIA | 12885 |
|---------------------------|--------------|-------------|------|------|--------|-------|
| | Quantitative | | | | MS | |
| | Limit | | | | | |
| Dilution_Factor | | - | - | - | 1.00 | |
| 1,1,1-trichloroethan ug/L | ug/L | 3.00 | 108. | .050 | <3.00 | |
| 1,1,2,2-tetrachloroe ug/L | ug/L | 3.00 | 120. | 19.1 | <3.00 | |
| 1,1,2-trichloroethan ug/L | ug/L | 3.00 | 116. | 5.58 | <3.00 | |
| 1,1-dichloroethane ug/L | ug/L | 3.00 | 93.7 | 1.39 | <3.00 | |
| 1,1-dichloroethene ug/L | ug/L | 3.00 | 101. | 21.0 | <3.00 | |
| 1,2-dichloroethane ug/L | ug/L | 3.00 | 111. | 1.16 | <3.00 | |
| 1,2-dichloropropane ug/L | ug/L | 3.00 | 111. | .010 | <3.00 | |
| 2-chloroethylvinylet ug/L | ug/L | 3.00 | | | <3.00 | |
| Bromodichloromethane ug/L | ug/L | 3.00 | 117. | 1.01 | <3.00 | |
| Bromoform ug/L | ug/L | 3.00 | 96.4 | 22.9 | <3.00 | |
| cis-1,3-dichloroprop ug/L | ug/L | 3.00 | 115. | 4.45 | <3.00 | |
| Carbon tetrachloride ug/L | ug/L | 3.00 | 98.4 | 1.02 | <3.00 | |
| Chloroform ug/L | ug/L | 3.00 | 103. | 1.01 | <3.00 | |
| Dibromochloromethane ug/L | ug/L | 3.00 | 88.1 | 30.4 | <3.00 | |
| Methylene chloride ug/L | ug/L | 3.00 | 88.2 | 1.23 | <3.00 | |
| trans-1,3,-dichlorop ug/L | ug/L | 3.00 | 111. | 9.59 | <3.00 | |
| Trichlorofluorometha ug/L | ug/L | 6.00 | 105. | .200 | <6.00 | |
| t-1,2-dichloroethene ug/L | ug/L | 3.00 | 80.4 | 7.32 | <3.00 | |
| Trichloroethene ug/L | ug/L | 3.00 | 112. | 1.18 | <3.00 | |
| Tetrachloroethene ug/L | ug/L | 3.00 | 118. | .810 | <3.00 | |
| 1,2-dibromo-3-chloro ug/L | ug/L | 3.00 | 120. | 20.5 | <3.00 | |
| Bromomethane ug/L | ug/L | 15.0 | | | <15.0 | |
| Chlorobenzene ug/L | ug/L | 1.50 | 118. | .530 | <1.50 | |
| Chloroethane ug/L | ug/L | 9.00 | 107. | .130 | <9.00 | |
| Chloromethane ug/L | ug/L | 15.0 | | | <15.0 | |

Data Release Authorization

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[Handwritten signature over the following text]
Jefferson S. Flowers, Ph.D.
President, Technical Director
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Received From:

S&ME-Charlotte
P.O. Box 7668
Charlotte, NC 28241

Date Reported : Feb17 1997
Project Number : UNOCAFE835927785
PO Number : 9787-214
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA601 IPE602 PAH X610

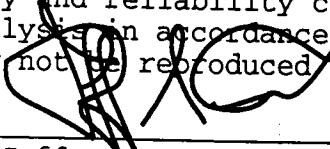
Date Sampled:Feb 8 1997 Date Received:Feb11 1997 Lab Numbers: 12880-12885

REPORT OF ANALYSIS

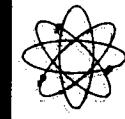
| Parameter | Unit | NCPractical | %ACC | %PRC | 12880 MW3 | 12881 MW7 | 12882 MW8 | 12883 MW4 | 12884 DMW5 |
|-----------------------|------|-------------|------|------|--------------|--------------|--------------|--------------|---------------|
| Quantitative Limit | | | | | | | | | |
| Dichlorodifluorometh | ug/L | 6.00 | | | <6.00 | <6.00 | <12.0 | <12.0 | <6.00 |
| Vinyl chloride | ug/L | 1.50 | | | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| o-dichlorobenzene | ug/L | 1.50 | 98.9 | 7.58 | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| m-dichlorobenzene | ug/L | 1.50 | 94.6 | 6.40 | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| Para-dichlorobenzene | ug/L | 1.50 | 89.7 | 9.00 | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| Hall_Spike | ug/L | 1.50 | 106. | .120 | 108. | 109. | 109. | 103. | 110. |
| - | | | | | | | | | |
| Dilution_Factor | | - | - | - | 1.00 | 1.00 | 2.00 | 2.00 | 1.00 |
| o-dichlorobenzene | ug/L | 1.50 | 98.9 | 7.58 | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| m-dichlorobenzene | ug/L | 1.50 | 94.6 | 6.40 | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| Para-dichlorobenzene | ug/L | 1.50 | 89.7 | 9.00 | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| Benzene | ug/L | 1.50 | 92.0 | 19.2 | <1.50 | <1.50 | <3.00 | 3.70 | <1.50 |
| Chlorobenzene | ug/L | 1.50 | 118. | .530 | <1.50 | <1.50 | <3.00 | <3.00 | <1.50 |
| Ethylbenzene | ug/L | 1.50 | 108. | .880 | <1.50 | <1.50 | <3.00 | 3.70 | <1.50 |
| Toluene | ug/L | 1.50 | 93.2 | .400 | <1.50 | <1.50 | <3.00 | 11.1 | <1.50 |
| Xylene | ug/L | 1.50 | 113. | 1.09 | <1.50 | <1.50 | <3.00 | 64.1 | <1.50 |
| Methyl-tert-butyleth | ug/L | 1.50 | 86.5 | .100 | 4.30 | <1.50 | 6.20 | 654. | <1.50 |
| Total_BTEX | ug/L | 1.50 | 106. | 1.99 | <1.50 | <1.50 | <3.00 | 82.6 | <1.50 |
| Isopropylether | ug/L | 3.00 | | | 11.3 | <3.00 | <6.00 | <6.00 | <3.00 |
| PID_Spike | ug/L | 1.50 | 95.6 | 2.06 | 114. | 115. | 115. | 96.0 | 91.0 |
| - | | | | | | | | | |
| Acenaphthylene | ug/L | 3.00 | 69.8 | 6.89 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Acenaphthene | ug/L | 3.00 | 59.1 | 7.66 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Anthracene | ug/L | 3.00 | 66.8 | 7.16 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Benzo(a)anthracene | ug/L | 3.00 | 77.6 | 3.68 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Benzo(a)pyrene | ug/L | 3.00 | 92.0 | 3.58 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |

Data Release Authorization

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FAX: (407) 260-6110



Received From:

S&ME-Charlotte
P.O. Box 7668
Charlotte, NC 28241

Date Reported : Feb17 1997
Project Number : UNOCAFE835927785
PO Number : 9787-214
FDHRSdw Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHec Number : 96019

For: EPA601 IPE602 PAH X610

Date Sampled: Feb 8 1997 Date Received: Feb11 1997 Lab Numbers: 12880-12885

REPORT OF ANALYSIS

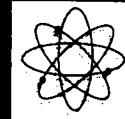
| Parameter | Unit | NCPractical | %ACC | %PRC | WILLIA | 12885 |
|----------------------|--------------|-------------|------|------|--------|-------|
| | Quantitative | | | | MS | |
| | Limit | | | | | |
| Dichlorodifluorometh | ug/L | 6.00 | | | <6.00 | |
| Vinyl chloride | ug/L | 1.50 | | | <1.50 | |
| o-dichlorobenzene | ug/L | 1.50 | 98.9 | 7.58 | <1.50 | |
| m-dichlorobenzene | ug/L | 1.50 | 94.6 | 6.40 | <1.50 | |
| Para-dichlorobenzene | ug/L | 1.50 | 89.7 | 9.00 | <1.50 | |
| Hall_Spike | ug/L | 1.50 | 106. | .120 | 108. | |
| Dilution_Factor | | - | - | - | 1.00 | |
| o-dichlorobenzene | ug/L | 1.50 | 98.9 | 7.58 | <1.50 | |
| m-dichlorobenzene | ug/L | 1.50 | 94.6 | 6.40 | <1.50 | |
| Para-dichlorobenzene | ug/L | 1.50 | 89.7 | 9.00 | <1.50 | |
| Benzene | ug/L | 1.50 | 92.0 | 19.2 | <1.50 | |
| Chlorobenzene | ug/L | 1.50 | 118. | .530 | <1.50 | |
| Ethylbenzene | ug/L | 1.50 | 108. | .880 | <1.50 | |
| Toluene | ug/L | 1.50 | 93.2 | .400 | <1.50 | |
| Xylene | ug/L | 1.50 | 113. | 1.09 | <1.50 | |
| Methyl-tert-butyleth | ug/L | 1.50 | 86.5 | .100 | <1.50 | |
| Total_BTEX | ug/L | 1.50 | 106. | 1.99 | <1.50 | |
| Isopropylether | ug/L | 3.00 | | | <3.00 | |
| PID_Spike | ug/L | 1.50 | 95.6 | 2.06 | 115. | |
| Acenaphthylene | ug/L | 3.00 | 69.8 | 6.89 | <3.00 | |
| Acenaphthene | ug/L | 3.00 | 59.1 | 7.66 | <3.00 | |
| Anthracene | ug/L | 3.00 | 66.8 | 7.16 | <3.00 | |
| Benzo(a)anthracene | ug/L | 3.00 | 77.6 | 3.68 | <3.00 | |
| Benzo(a)pyrene | ug/L | 3.00 | 92.0 | 3.58 | <3.00 | |

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President/Technical Director
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Charlotte, NC 28241

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PO Number : 9787-214
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA601 IPE602 PAH X610

Date Sampled:Feb 8 1997 Date Received:Feb11 1997 Lab Numbers: 12880-12885

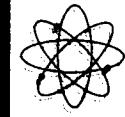
REPORT OF ANALYSIS

| Parameter | Unit | NCPractical | %ACC | %PRC | 12880 MW3 | 12881 MW7 | 12882 MW8 | 12883 MW4 | 12884 DMW5 |
|---------------------------|------|-------------|------|------|--------------|--------------|--------------|--------------|---------------|
| Quantitative Limit | | | | | | | | | |
| Benzo(b)fluoranthene ug/L | ug/L | 3.00 | 90.1 | 1.04 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Benzo(g,h,i)perylene ug/L | ug/L | 3.00 | 89.4 | 9.50 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Benzo(k)fluoranthene ug/L | ug/L | 3.00 | 67.9 | 2.97 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Chrysene ug/L | ug/L | 3.00 | 67.7 | 6.21 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Dibnz(a,h)anthracene ug/L | ug/L | 3.00 | | | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Fluoranthene ug/L | ug/L | 3.00 | 78.1 | 6.50 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Fluorene ug/L | ug/L | 3.00 | 68.3 | 5.47 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Indn(1,2,3-cd)pyrene ug/L | ug/L | 3.00 | 104. | 7.80 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Naphthalene ug/L | ug/L | 3.00 | 58.7 | 7.05 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| 1-methyl-Naphthalene ug/L | ug/L | 3.00 | 60.4 | 5.89 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| 2-methyl-Naphthalene ug/L | ug/L | 3.00 | 60.2 | 4.40 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Phenanthrene ug/L | ug/L | 3.00 | 64.7 | 5.78 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Pyrene ug/L | ug/L | 3.00 | 67.8 | 2.73 | <3.00 | <3.00 | <3.00 | <3.00 | <3.00 |
| Intl_QA_Spike(2FBP) ug/L | ug/L | 3.00 | 60.0 | 6.25 | 28.2 | 38.5 | 35.8 | 40.0 | 35.3 |
| Surr_Spike(DBBP) ug/L | ug/L | 3.00 | 79.4 | 4.83 | 43.3 | 73.1 | 53.4 | 62.0 | 60.0 |
| PAH_Extraction ml | ml | - | | | 1000 | 1000 | 1000 | 1000 | 1000 |

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President/Technical Director



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Date Reported : Feb17 1997
Project Number : UNOCAFE835927785
PO Number : 9787-214
FDHRSdw Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA601 IPE602 PAH X610

Date Sampled: Feb 8 1997 Date Received: Feb11 1997 Lab Numbers: 12880-12885

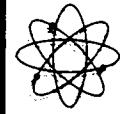
REPORT OF ANALYSIS

| Parameter | Unit | NCP | Practical | %ACC | %PRC | WILLIA | 12885 |
|-----------------------|--------------|-------|-----------|------|-------|--------|-------|
| | Quantitative | | | | | MS | |
| | | Limit | | | | | |
| Benzo(b)fluoranthene | ug/L | 3.00 | 90.1 | 1.04 | <3.00 | | |
| Benzo(g,h,i)perylene | ug/L | 3.00 | 89.4 | 9.50 | <3.00 | | |
| Benzo(k)fluoranthene | ug/L | 3.00 | 67.9 | 2.97 | <3.00 | | |
| Chrysene | ug/L | 3.00 | 67.7 | 6.21 | <3.00 | | |
| Dibnz(a,h)anthracene | ug/L | 3.00 | | | <3.00 | | |
| Fluoranthene | ug/L | 3.00 | 78.1 | 6.50 | <3.00 | | |
| Fluorene | ug/L | 3.00 | 68.3 | 5.47 | <3.00 | | |
| Indn(1,2,3-cd)pyrene | ug/L | 3.00 | 104. | 7.80 | <3.00 | | |
| Naphthalene | ug/L | 3.00 | 58.7 | 7.05 | <3.00 | | |
| 1-methyl-Naphthalene | ug/L | 3.00 | 60.4 | 5.89 | <3.00 | | |
| 2-methyl-Naphthalene | ug/L | 3.00 | 60.2 | 4.40 | <3.00 | | |
| Phenanthrene | ug/L | 3.00 | 64.7 | 5.78 | <3.00 | | |
| Pyrene | ug/L | 3.00 | 67.8 | 2.73 | <3.00 | | |
| Intl_QA_Spike(2FBP) | ug/L | 3.00 | 60.0 | 6.25 | 36.1 | | |
| Surrogate_Spike(DBBP) | ug/L | 3.00 | 79.4 | 4.83 | 50.6 | | |
| PAH_Extraction | ml | - | | | 1000 | | |

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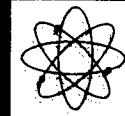
Date Reported : Feb17 1997
Project Number : UNOCAFE835927785
PO Number : 9787-214
FDHRS Number : 83139
FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA601 IPE602 PAH X610

Date Sampled:Feb 8 1997 Date Received:Feb11 1997 Lab Numbers: 12880-12885
REPORT OF INFORMATION

| Parameter | Unit | Limit | Expected | Value | Range | Correlation |
|----------------------|------|--------|----------|-------|-------|-------------|
| 1,2-dichloroethane | ug/L | 109000 | 1870 | 8.94 | 12880 | |
| Hall_Spike | ug/L | 153. | 93.8 | 108. | | |
| Methyl-tert-butyleth | ug/L | 35700 | 1540 | 4.30 | | |
| Isopropylether | ug/L | - | - | 11.3 | | |
| PID_Spike | ug/L | 153. | 101. | 114. | | |
| Intl_QA_Spike(2FBP) | ug/L | 138. | 61.4 | 28.2 | | |
| Surr_Spike(DBBP) | ug/L | 156. | 70.7 | 43.3 | | |
| PAH_Extraction | ml | - | - | 1000 | | |
| | | | | | 12881 | |
| Hall_Spike | ug/L | 153. | 93.8 | 109. | | |
| PID_Spike | ug/L | 153. | 101. | 115. | | |
| Intl_QA_Spike(2FBP) | ug/L | 138. | 61.4 | 38.5 | | |
| Surr_Spike(DBBP) | ug/L | 156. | 70.7 | 73.1 | | |
| PAH_Extraction | ml | - | - | 1000 | | |
| | | | | | 12882 | |
| Hall_Spike | ug/L | 153. | 93.8 | 109. | | |
| Methyl-tert-butyleth | ug/L | 35700 | 1540 | 6.20 | | |
| PID_Spike | ug/L | 153. | 101. | 115. | | |
| Intl_QA_Spike(2FBP) | ug/L | 138. | 61.4 | 35.8 | | |
| Surr_Spike(DBBP) | ug/L | 156. | 70.7 | 53.4 | | |
| PAH_Extraction | ml | - | - | 1000 | | |

The above information is intended to highlight exceptional data as compared to the upper control limits (Limit) established for each of the parameters. Range exceedances are flagged by integer values in the Range column. The Expected values are derived from historical data. Expected is computed as either the mean or computed directly from another parameter using linear regression. All known correlation rule exceedances are listed as enumerated rule numbers in the Correlation column. Correlation pair rules are defined on the last page.



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Date Reported : Feb17 1997
Project Number : UNOCAFE835927785
PO Number : 9787-214
FDHRS Number : 83139
FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
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NCDEHNR Number : 296
SCDHEC Number : 96019

For: EPA601 IPE602 PAH X610

Date Sampled:Feb 8 1997 Date Received:Feb11 1997 Lab Numbers: 12880-12885
REPORT OF INFORMATION

| Parameter | Unit | Limit | Expected | Value | Range | Correlation |
|----------------------|------|-------|----------|-------|-------|-------------|
| Hall_Spike | ug/L | 153. | 93.8 | 103. | 12883 | |
| Benzene | ug/L | 50800 | 1260 | 3.70 | | |
| Ethylbenzene | ug/L | 3870 | 450. | 3.70 | | |
| Toluene | ug/L | 46500 | 6870 | 11.1 | | |
| Xylene | ug/L | 16700 | 1840 | 64.1 | | |
| Methyl-tert-butyleth | ug/L | 35700 | 1540 | 654. | | |
| Total_BTEX | ug/L | 60400 | 4280 | 82.6 | | |
| PID_Spike | ug/L | 153. | 101. | 96.0 | | |
| Intl_QA_Spike(2FBP) | ug/L | 138. | 61.4 | 40.0 | | |
| Surr_Spike(DBBP) | ug/L | 156. | 70.7 | 62.0 | | |
| PAH_Extraction | ml | - | - | 1000 | | |
| | | | | | 12884 | |
| Hall_Spike | ug/L | 153. | 93.8 | 110. | | |
| PID_Spike | ug/L | 153. | 101. | 91.0 | | |
| Intl_QA_Spike(2FBP) | ug/L | 138. | 61.4 | 35.3 | | |
| Surr_Spike(DBBP) | ug/L | 156. | 70.7 | 60.0 | | |
| PAH_Extraction | ml | - | - | 1000 | | |
| | | | | | 12885 | |
| Hall_Spike | ug/L | 153. | 93.8 | 108. | | |
| PID_Spike | ug/L | 153. | 101. | 115. | | |
| Intl_QA_Spike(2FBP) | ug/L | 138. | 61.4 | 36.1 | | |
| Surr_Spike(DBBP) | ug/L | 156. | 70.7 | 50.6 | | |
| PAH_Extraction | ml | - | - | 1000 | | |

The above information is intended to highlight exceptional data as compared to the upper control limits (Limit) established for each of the parameters. Range exceedances are flagged by integer values in the Range column. The Expected values are derived from historical data. Expected is computed as either the mean or computed directly from another parameter using linear regression. All known correlation rule exceedances are listed as enumerated rule numbers in the Correlation column. Correlation pair rules are defined on the last page.

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FLOWERS CHEMICAL LABORATORIES

ANALYTICAL RESULTS FORM

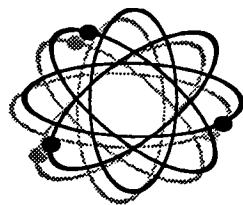
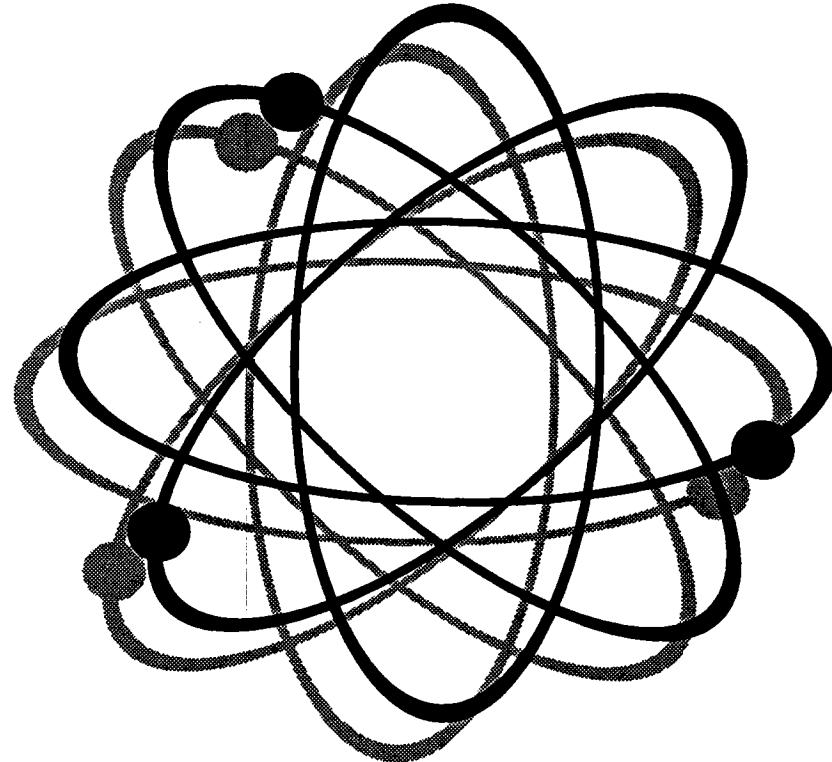
HRS Number 83139

| Parameter | Symbol | Unit | MW3 | MW7 | MW8 | MW4 | DW5 | Williams | QA | Section |
|-----------------------------|--------|------|-------|------|------|------|------|----------|--------|---------|
| Dilution Factor | # | | 1 | 1 | 2 | 2 | 1 | 1 | Method | %RSD |
| 1,1,1-trichloroethane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 1 |
| 1,1,2,2-tetrachloroethane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 0.0501 |
| 1,1,2-dichloroethane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 3 |
| 1,1-dichloroethane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 3 |
| 1,1-dichloroethylene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 3 |
| 1,2-dichloroethane | . | ug/L | 0.94 | <3 | <3 | <3 | <3 | <3 | EPA601 | 19.1 |
| 1,2-dichloropropane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 3 |
| 2-chloroethylvinylether | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 5.58 |
| Bromodichloromethane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 1.39 |
| Bromform | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 93.7 |
| cis-1,3-dichloropropene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 101 |
| Carbon tetrachloride | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 111 |
| Chlordform | . | ug/L | <3 | 2.35 | <3 | <3 | <3 | <3 | EPA601 | 0.014 |
| Dibromochloromethane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 3 |
| Methylene chloride | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 1.16 |
| trans-1,3-dichloropropene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 111 |
| Trichlorofluoromethane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 0.014 |
| 1,1,2-trichloroethene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 1.02 |
| Trichloroethene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 9.59 |
| Tetrachloroethene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 1.02 |
| 1,2-dibromo-3-chloropropane | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA601 | 1.01 |
| Bromomethane | . | ug/L | <15 | <15 | <15 | <15 | <15 | <15 | EPA601 | 105 |
| Chlorobenzene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA601 | 3.04 |
| Chloroethane | . | ug/L | <9 | <9 | <9 | <9 | <9 | <9 | EPA601 | 22.9 |
| Chloromethane | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA601 | 1.23 |
| Dichlorodifluoromethane | . | ug/L | <6 | <6 | <6 | <6 | <6 | <6 | EPA601 | 1.11 |
| Vinyl chloride | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA601 | 88.4 |
| c-Dichlorobenzene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA601 | 4.45 |
| m-Dichlorobenzene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA601 | 115 |
| Para-dichlorobenzene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA601 | 98.4 |
| HPL Spike | . | ug/L | 108 | 108 | 108 | 108 | 110 | 115 | EPA601 | 105 |
| Dilution Factor | # | | 1 | 1 | 2 | 2 | 1 | 1 | EPA602 | 105 |
| c-Dichlorobenzene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 1.5 |
| m-Dichlorobenzene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 7.58 |
| para-Dichlorobenzene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 6.4 |
| Benzene | . | ug/L | 0.975 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 9 |
| Chlorobenzene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 19.2 |
| Chloroethylene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 0.537 |
| Toluene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 108 |
| Xyrene | . | ug/L | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 93.2 |
| Methyl-tert-butylether | . | ug/L | 4.3 | <1.5 | 6.2 | 6.54 | 6.62 | 7.16 | EPA602 | 113 |
| Total BTEX | . | ug/L | 0.975 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | EPA602 | 0.101 |
| Isopropylether | . | ug/L | 11.3 | <3 | <3 | <3 | <3 | <3 | EPA602 | 106 |
| FID Spike | . | ug/L | 114 | 115 | 96 | 91 | 115 | - | EPA602 | 95.6 |
| Acenaphthylene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA625 | 6.98 |
| Acenaphthene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA625 | 59.1 |
| Anthracene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA625 | 7.66 |
| Benz(a)anthracene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA625 | 66.8 |
| Benz(a)pyrene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA625 | 77.6 |
| Benz(a)fluorene | . | ug/L | <3 | <3 | <3 | <3 | <3 | <3 | EPA625 | 92 |

Quality Assurance Report

Prepared for: S&ME-Charlotte
Project Number: UNOCAFE835927785
Lab Numbers: 12880 - 12885

Report date: 17-Feb-97





QA Conformance Summary

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

Sample Handling

Sample handling and holding time criteria were met for all samples.
Samples Collected by Submitter.

Surrogate Compound Recoveries:

The recovery limits were exceeded for 6 samples as shown in section 1. This represents a 75.0% success rate.
Surrogate exceedences are attributed to matrix interferences.

Accuracy / Precision:

The recovery limits were exceeded for 2 compounds in the matrix spike as shown in section 2. This represents a 96.1% success rate.
The recovery limits were met for all compounds in the matrix spike duplicate as shown in section 2.
The RSD was exceeded for 6 compounds as shown in section 2. This represents a 88.2% success rate.

Method Blanks:

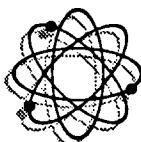
No target compounds were found in the method blank in excess of the method limit as shown in section 3.

QCCS Check Sample:

The control limits were exceeded for 2 compounds as shown in section 4. This represents a 96.2% success rate.

Standards Traceability:

The t-test limits were met for all calibration standards as shown in section 5.
The t-test limits were exceeded for 4 QCCS standards as shown in section 5. This represents a 92.5% success rate.
The t-test limits were exceeded for 4 matrix spike standards as shown in section 5. This represents a 92.5% success rate.
There were 5 standard blanks.
The t-test limits were met for all surrogate spike standards as shown in section 5.



**FLOWERS CHEMICAL
LABORATORIES, INC.**

Section 1

Surrogate Compound Recovery

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

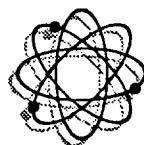
Hall_Spike for EPA601

Surrogate Expected: 100

Unit of measure: ug/L

Acceptability Limits: 71 - 119

| Laboratory Number | Site Description | Surrogate Recovered | Percent Recovered |
|-------------------|------------------|---------------------|-------------------|
| 12880 | MW3 | 108 | 108 |
| 12881 | MW7 | 109 | 109 |
| 12882 | MW8 | 109 | 109 |
| 12883 | MW4 | 103 | 103 |
| 12884 | DMW5 | 110 | 110 |
| 12885 | Williams | 108 | 108 |
| | | | |



FLOWERS CHEMICAL LABORATORIES, INC.

Section 1

Surrogate Compound Recovery

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

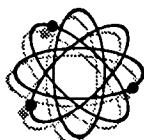
PID_Spike for EPA602

Surrogate Expected: 100

Unit of measure: ug/L

Acceptability Limits: 69.6 - 127

| Laboratory Number | Site Description | Surrogate Recovered | Percent Recovered |
|-------------------|------------------|---------------------|-------------------|
| 12880 | MW3 | 114 | 114 |
| 12881 | MW7 | 115 | 115 |
| 12882 | MW8 | 115 | 115 |
| 12883 | MW4 | 96.0 | 96.0 |
| 12884 | DMW5 | 91.0 | 91.0 |
| 12885 | Williams | 115 | 115 |
| | | | |



FLOWERS CHEMICAL LABORATORIES, INC.

Section 1

Surrogate Compound Recovery

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

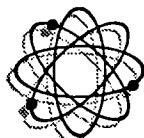
Surr_Spike(2FBP) for EPA625

Surrogate Expected: 100

Unit of measure: ug/L

Acceptability Limits: 41.5 - 89.5

| Laboratory Number | Site Description | Surrogate Recovered | Percent Recovered |
|-------------------|------------------|---------------------|-------------------|
| 12880 | MW3 | 28.2 | 28.2 |
| 12881 | MW7 | 38.5 | 38.5 |
| 12882 | MW8 | 35.8 | 35.8 |
| 12883 | MW4 | 40.0 | 40.0 |
| 12884 | DMW5 | 35.3 | 35.3 |
| 12885 | Williams | 36.1 | 36.1 |
| | | | |



FLOWERS CHEMICAL LABORATORIES, INC.

Section 1

Surrogate Compound Recovery

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

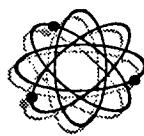
Surr_Spike(DBBP) for EPA625

Surrogate Expected: 100

Unit of measure: ug/L

Acceptability Limits: 30.4 - 110

| Laboratory Number | Site Description | Surrogate Recovered | Percent Recovered |
|-------------------|------------------|---------------------|-------------------|
| 12880 | MW3 | 43.3 | 43.3 |
| 12881 | MW7 | 73.1 | 73.1 |
| 12882 | MW8 | 53.4 | 53.4 |
| 12883 | MW4 | 62.0 | 62.0 |
| 12884 | DMW5 | 60.0 | 60.0 |
| 12885 | Williams | 50.6 | 50.6 |
| | | | |



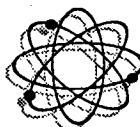
FLOWERS CHEMICAL LABORATORIES, INC.

Section 2

Matrix Spike Recovery

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

| Analyte | Unit | Analysis Method | Date | Spike Added | Sample Conc. | MS Conc. | MS Rec. | MSD Conc. | MSD Rec. | Acceptable Limits | RSD Rec. | Acceptable Limits |
|----------------------------|------|-----------------|----------|-------------|--------------|----------|---------|-----------|----------|-------------------|----------|-------------------|
| 1,1,1-trichloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 10.8 | 108% | 10.8 | 108% | 6.99 - 12.8 | 0.000 | 0 - 1.69 |
| 1,1,2,2-tetrachloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 13.6 | 136% | 10.3 | 103% | 7.16 - 13.0 | 2.43 | 0 - 1.66 |
| 1,1,2-trichloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.1 | 111% | 12.0 | 120% | 7.04 - 12.1 | 0.636 | 0 - 1.59 |
| 1,1-dichloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 9.46 | 94.6% | 9.28 | 92.8% | 6.99 - 12.7 | 0.127 | 0 - 1.71 |
| 1,1-dichloroethene | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.6 | 116% | 8.60 | 86.0% | 6.75 - 12.9 | 2.42 | 0 - 1.79 |
| 1,2-dichloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.1 | 111% | 11.0 | 110% | 6.96 - 12.7 | 0.071 | 0 - 1.64 |
| 1,2-dichloropropane | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.0 | 110% | 11.1 | 111% | 7.12 - 12.7 | 0.071 | 0 - 1.55 |
| Bromodichloromethane | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.7 | 117% | 11.8 | 118% | 7.11 - 12.4 | 0.071 | 0 - 1.55 |
| Bromoform | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.2 | 112% | 8.08 | 80.8% | 6.42 - 12.8 | 2.21 | 0 - 1.93 |
| cis-1,3-dichloropropene | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.2 | 112% | 11.9 | 119% | 7.12 - 12.7 | 0.495 | 0 - 1.54 |
| Carbon tetrachloride | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 9.91 | 99.1% | 9.77 | 97.7% | 6.80 - 12.8 | 0.099 | 0 - 1.69 |
| Chloroform | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 10.4 | 104% | 10.3 | 103% | 6.96 - 12.4 | 0.071 | 0 - 1.58 |
| Dibromochloromethane | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 10.7 | 107% | 6.91 | 69.1% | 6.72 - 12.4 | 2.68 | 0 - 1.65 |
| Methylene chloride | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 8.75 | 87.5% | 8.90 | 89.0% | 6.80 - 12.2 | 0.106 | 0 - 1.47 |
| trans-1,3,-dichloropropene | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 10.3 | 103% | 11.9 | 119% | 6.95 - 12.7 | 1.13 | 0 - 1.46 |
| Trichlorofluoromethane | ug/L | EPA601 | 02-13-97 | 10.0 | <6 | 10.5 | 105% | 10.5 | 105% | 6.52 - 13.1 | 0.000 | 0 - 1.90 |
| t-1,2-dichloroethene | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 8.46 | 84.6% | 7.63 | 76.3% | 6.84 - 12.5 | 0.587 | 0 - 1.54 |
| Trichloroethene | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.1 | 111% | 11.3 | 113% | 6.83 - 12.6 | 0.141 | 0 - 1.71 |
| Tetrachloroethene | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 11.9 | 119% | 11.8 | 118% | 6.76 - 13.0 | 0.071 | 0 - 1.82 |
| 1,2-dibromo-3-chloropropan | ug/L | EPA601 | 02-13-97 | 10.0 | <3 | 13.7 | 137% | 10.3 | 103% | 6.80 - 12.8 | 2.46 | 0 - 1.84 |
| Chloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | <9 | 10.7 | 107% | 10.7 | 107% | 6.79 - 13.1 | 0.000 | 0 - 1.90 |
| o-dichlorobenzene | ug/L | EPA601 | 02-13-97 | 10.0 | <1.5 | 10.4 | 104% | 9.36 | 93.6% | 7.00 - 12.4 | 0.735 | 0 - 1.61 |
| m-dichlorobenzene | ug/L | EPA601 | 02-13-97 | 10.0 | <1.5 | 9.89 | 98.9% | 9.04 | 90.4% | 7.00 - 12.7 | 0.601 | 0 - 1.75 |
| o-dichlorobenzene | ug/L | EPA602 | 02-13-97 | 10.0 | <1.5 | 10.4 | 104% | 9.36 | 93.6% | 6.58 - 13.1 | 0.735 | 0 - 1.95 |
| m-dichlorobenzene | ug/L | EPA602 | 02-13-97 | 10.0 | <1.5 | 9.89 | 98.9% | 9.04 | 90.4% | 6.70 - 13.1 | 0.601 | 0 - 1.81 |
| Para-dichlorobenzene | ug/L | EPA602 | 02-13-97 | 10.0 | <1.5 | 9.54 | 95.4% | 8.40 | 84.0% | 6.40 - 13.2 | 0.806 | 0 - 2.00 |
| Benzene | ug/L | EPA602 | 02-13-97 | 10.0 | <1.5 | 10.5 | 105% | 7.96 | 79.6% | 7.90 - 12.5 | 0.80 | 0 - 1.40 |
| Chlorobenzene | ug/L | EPA602 | 02-13-97 | 10.0 | <1.5 | 11.8 | 118% | 11.9 | 119% | 6.31 - 13.2 | 0.071 | 0 - 1.98 |
| Ethylbenzene | ug/L | EPA602 | 02-13-97 | 10.0 | <1.5 | 10.7 | 107% | 10.8 | 108% | 7.04 - 13.2 | 0.071 | 0 - 1.87 |
| Toluene | ug/L | EPA602 | 02-13-97 | 10.0 | <1.5 | 9.29 | 92.9% | 9.34 | 93.4% | 7.58 - 12.8 | 0.035 | 0 - 1.59 |



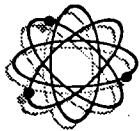
FLOWERS CHEMICAL LABORATORIES, INC.

Section 2

Matrix Spike Recovery

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

| Analyte | Unit | Analysis Method | Date | Spike Added | Sample Conc. | MS Conc. | MS Rec. | MSD Conc. | MSD Rec. | Acceptable Limits | RSD Rec. | Acceptable Limits |
|------------------------|------|-----------------|----------|-------------|--------------|----------|---------|-----------|----------|-------------------|----------|-------------------|
| Xylene | ug/L | EPA602 | 02-13-97 | 30.0 | <1.5 | 33.8 | 113% | 34.3 | 114% | 22.5 - 38.7 | 0.354 | 0 - 5.01 |
| Methyl-tert-butylether | ug/L | EPA602 | 02-13-97 | 10.0 | <1.5 | 8.65 | 86.5% | 8.66 | 86.6% | 7.00 - 12.0 | 0.007 | 0 - 1.62 |
| Total_BTEX | ug/L | EPA602 | 02-13-97 | 60.0 | <1.5 | 64.2 | 107% | 62.4 | 104% | 46.4 - 76.0 | 1.27 | 0 - 9.30 |
| Acenaphthylene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 66.4 | 66.4% | 73.2 | 73.2% | 42.3 - 98.5 | 4.81 | 0 - 15.8 |
| Acenaphthene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 55.9 | 55.9% | 62.3 | 62.3% | 45.4 - 89.2 | 4.53 | 0 - 11.6 |
| Anthracene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 63.4 | 63.4% | 70.1 | 70.1% | 47.8 - 91.8 | 4.74 | 0 - 12.4 |
| Benzo(a)anthracene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 75.5 | 75.5% | 79.6 | 79.6% | 47.3 - 102 | 2.90 | 0 - 16.1 |
| Benzo(a)pyrene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 89.7 | 89.7% | 94.4 | 94.4% | 45.1 - 97.5 | 3.32 | 0 - 15.8 |
| Benzo(b)fluoranthene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 90.8 | 90.8% | 89.5 | 89.5% | 37.4 - 108 | 0.919 | 0 - 23.9 |
| Benzo(g,h,i)perylene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 83.4 | 83.4% | 95.4 | 95.4% | 42.2 - 105 | 8.49 | 0 - 17.5 |
| Benzo(k)fluoranthene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 66.5 | 66.5% | 69.3 | 69.3% | 41.5 - 115 | 1.98 | 0 - 26.1 |
| Chrysene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 64.7 | 64.7% | 70.7 | 70.7% | 50.9 - 101 | 4.24 | 0 - 15.1 |
| Dibnz(a,h)anthracene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 53.2 | 53.2% | 60.0 | 60.0% | 39.8 - 107 | 4.81 | 0 - 19.1 |
| Fluoranthene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 74.5 | 74.5% | 81.6 | 81.6% | 52.4 - 97.6 | 5.02 | 0 - 12.7 |
| Fluorene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 65.6 | 65.6% | 70.9 | 70.9% | 51.8 - 91.2 | 3.75 | 0 - 10.4 |
| Indn(1,2,3-cd)pyrene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 98.4 | 98.4% | 110 | 110% | 37.0 - 111 | 8.20 | 0 - 23.6 |
| Naphthalene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 55.8 | 55.8% | 61.6 | 61.6% | 40.6 - 93.4 | 4.10 | 0 - 16.6 |
| 1-Methyl-Naphthalene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 57.9 | 57.9% | 62.9 | 62.9% | 49.8 - 96.0 | 3.54 | 0 - 11.9 |
| 2-Methyl-Naphthalene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 58.4 | 58.4% | 62.1 | 62.1% | 45.0 - 99.9 | 2.62 | 0 - 16.0 |
| Phenanthrene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 62.1 | 62.1% | 67.4 | 67.4% | 50.4 - 91.4 | 3.75 | 0 - 10.5 |
| Pyrene | ug/L | EPA625 | 02-14-97 | 100 | <3 | 69.1 | 69.1% | 66.5 | 66.5% | 50.0 - 104 | 1.84 | 0 - 14.9 |



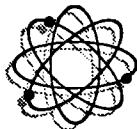
FLOWERS CHEMICAL LABORATORIES, INC.

Section 3

Method Blank Report

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

| Analyte | Unit | Method | Date | Concentration |
|-----------------------------|------|--------|----------|---------------|
| 1,1,1-trichloroethane | ug/L | EPA601 | 02-13-97 | <3 |
| 1,1,2,2-tetrachloroethane | ug/L | EPA601 | 02-13-97 | <3 |
| 1,1,2-trichloroethane | ug/L | EPA601 | 02-13-97 | <3 |
| 1,1-dichloroethane | ug/L | EPA601 | 02-13-97 | <3 |
| 1,1-dichloroethene | ug/L | EPA601 | 02-13-97 | <3 |
| 1,2-dichloroethane | ug/L | EPA601 | 02-13-97 | <3 |
| 1,2-dichloropropane | ug/L | EPA601 | 02-13-97 | <3 |
| 2-chloroethylvinylether | ug/L | EPA601 | 02-13-97 | <3 |
| Bromodichloromethane | ug/L | EPA601 | 02-13-97 | <3 |
| Bromoform | ug/L | EPA601 | 02-13-97 | <3 |
| cis-1,3-dichloropropene | ug/L | EPA601 | 02-13-97 | <3 |
| Carbon tetrachloride | ug/L | EPA601 | 02-13-97 | <3 |
| Chloroform | ug/L | EPA601 | 02-13-97 | <3 |
| Dibromochloromethane | ug/L | EPA601 | 02-13-97 | <3 |
| Methylene chloride | ug/L | EPA601 | 02-13-97 | <3 |
| trans-1,3,-dichloropropene | ug/L | EPA601 | 02-13-97 | <3 |
| Trichlorofluoromethane | ug/L | EPA601 | 02-13-97 | <6 |
| t-1,2-dichloroethene | ug/L | EPA601 | 02-13-97 | <3 |
| Trichloroethene | ug/L | EPA601 | 02-13-97 | <3 |
| Tetrachloroethene | ug/L | EPA601 | 02-13-97 | <3 |
| 1,2-dibromo-3-chloropropane | ug/L | EPA601 | 02-13-97 | <3 |
| Bromomethane | ug/L | EPA601 | 02-13-97 | <15 |
| Chlorobenzene | ug/L | EPA601 | 02-13-97 | <1.5 |
| Chloroethane | ug/L | EPA601 | 02-13-97 | <9 |
| Chloromethane | ug/L | EPA601 | 02-13-97 | <15 |
| Dichlorodifluoromethane | ug/L | EPA601 | 02-13-97 | <6 |
| Vinyl chloride | ug/L | EPA601 | 02-13-97 | <1.5 |
| o-dichlorobenzene | ug/L | EPA601 | 02-13-97 | <1.5 |
| m-dichlorobenzene | ug/L | EPA601 | 02-13-97 | <1.5 |
| Para-dichlorobenzene | ug/L | EPA601 | 02-13-97 | <1.5 |
| o-dichlorobenzene | ug/L | EPA602 | 02-13-97 | <1.5 |



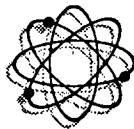
FLOWERS CHEMICAL LABORATORIES, INC.

Section 3

Method Blank Report

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

| Analyte | Unit | Method | Date | Concentration |
|------------------------|------|--------|----------|---------------|
| m-dichlorobenzene | ug/L | EPA602 | 02-13-97 | <1.5 |
| Para-dichlorobenzene | ug/L | EPA602 | 02-13-97 | <1.5 |
| Benzene | ug/L | EPA602 | 02-13-97 | <1.5 |
| Chlorobenzene | ug/L | EPA602 | 02-13-97 | <1.5 |
| Ethylbenzene | ug/L | EPA602 | 02-13-97 | <1.5 |
| Toluene | ug/L | EPA602 | 02-13-97 | <1.5 |
| Xylene | ug/L | EPA602 | 02-13-97 | <1.5 |
| Methyl-tert-butylether | ug/L | EPA602 | 02-13-97 | <1.5 |
| Total_BTEX | ug/L | EPA602 | 02-13-97 | <1.5 |
| Isopropylether | ug/L | EPA602 | 02-13-97 | <3 |
| Acenaphthylene | ug/L | EPA625 | 02-14-97 | <3 |
| Acenaphthene | ug/L | EPA625 | 02-14-97 | <3 |
| Anthracene | ug/L | EPA625 | 02-14-97 | <3 |
| Benzo(a)anthracene | ug/L | EPA625 | 02-14-97 | <3 |
| Benzo(a)pyrene | ug/L | EPA625 | 02-14-97 | <3 |
| Benzo(b)fluoranthene | ug/L | EPA625 | 02-14-97 | <3 |
| Benzo(g,h,i)perylene | ug/L | EPA625 | 02-14-97 | <3 |
| Benzo(k)fluoranthene | ug/L | EPA625 | 02-14-97 | <3 |
| Chrysene | ug/L | EPA625 | 02-14-97 | <3 |
| Dibnz(a,h)anthracene | ug/L | EPA625 | 02-14-97 | <3 |
| Fluoranthene | ug/L | EPA625 | 02-14-97 | <3 |
| Fluorene | ug/L | EPA625 | 02-14-97 | <3 |
| Indn(1,2,3-cd)pyrene | ug/L | EPA625 | 02-14-97 | <3 |
| Naphthalene | ug/L | EPA625 | 02-14-97 | <3 |
| 1-Methyl-Naphthalene | ug/L | EPA625 | 02-14-97 | <3 |
| 2-Methyl-Naphthalene | ug/L | EPA625 | 02-14-97 | <3 |
| Phenanthrene | ug/L | EPA625 | 02-14-97 | <3 |
| Pyrene | ug/L | EPA625 | 02-14-97 | <3 |



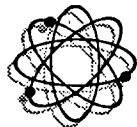
FLOWERS CHEMICAL LABORATORIES, INC.

Section 4

QCCS Sample Recovery

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

| Analyte | Unit | Method | Date | QCCS Expected | QCCS Measured | Rec. % | Acceptable Limits |
|-----------------------------|------|--------|----------|------------------|------------------|-----------|----------------------|
| 1,1,1-trichloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | 9.80 | 98.0% | 7.58 - 12.2 |
| 1,1,2,2-tetrachloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | 11.2 | 112% | 7.60 - 13.0 |
| 1,1,2-trichloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | 11.6 | 116% | 7.62 - 12.1 |
| 1,1-dichloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | 9.00 | 90.0% | 7.16 - 12.2 |
| 1,1-dichloroethene | ug/L | EPA601 | 02-13-97 | 10.0 | 8.55 | 85.5% | 6.74 - 12.4 |
| 1,2-dichloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | 10.6 | 106% | 7.78 - 12.1 |
| 1,2-dichloropropane | ug/L | EPA601 | 02-13-97 | 10.0 | 10.7 | 107% | 7.75 - 12.5 |
| Bromodichloromethane | ug/L | EPA601 | 02-13-97 | 10.0 | 11.7 | 117% | 7.68 - 12.5 |
| Bromoform | ug/L | EPA601 | 02-13-97 | 10.0 | 11.2 | 112% | 7.66 - 12.5 |
| cis-1,3-dichloropropene | ug/L | EPA601 | 02-13-97 | 10.0 | 10.1 | 101% | 7.55 - 13.1 |
| Carbon tetrachloride | ug/L | EPA601 | 02-13-97 | 10.0 | 9.86 | 98.6% | 7.40 - 12.0 |
| Chloroform | ug/L | EPA601 | 02-13-97 | 10.0 | 9.44 | 94.4% | 7.34 - 12.1 |
| Dibromochloromethane | ug/L | EPA601 | 02-13-97 | 10.0 | 10.7 | 107% | 7.63 - 12.1 |
| Methylene chloride | ug/L | EPA601 | 02-13-97 | 10.0 | 8.90 | 89.0% | 7.31 - 12.3 |
| trans-1,3,-dichloropropene | ug/L | EPA601 | 02-13-97 | 10.0 | 9.27 | 92.7% | 7.64 - 13.0 |
| Trichlorofluoromethane | ug/L | EPA601 | 02-13-97 | 10.0 | 10.5 | 105% | 7.27 - 13.3 |
| t-1,2-dichloroethene | ug/L | EPA601 | 02-13-97 | 10.0 | 8.64 | 86.4% | 6.78 - 12.3 |
| Trichloroethene | ug/L | EPA601 | 02-13-97 | 10.0 | 10.0 | 100% | 7.33 - 11.8 |
| Tetrachloroethene | ug/L | EPA601 | 02-13-97 | 10.0 | 10.3 | 103% | 7.67 - 12.0 |
| 1,2-dibromo-3-chloropropane | ug/L | EPA601 | 02-13-97 | 10.0 | 10.9 | 109% | 7.16 - 12.6 |
| Chloroethane | ug/L | EPA601 | 02-13-97 | 10.0 | 10.7 | 107% | 7.57 - 12.6 |
| Vinyl chloride | ug/L | EPA601 | 02-13-97 | 10.0 | 40.0 | 400% | 8.28 - 11.7 |
| o-dichlorobenzene | ug/L | EPA601 | 02-13-97 | 10.0 | 8.96 | 89.6% | 8.08 - 12.3 |
| m-dichlorobenzene | ug/L | EPA601 | 02-13-97 | 10.0 | 8.30 | 83.0% | 7.60 - 12.6 |
| o-dichlorobenzene | ug/L | EPA602 | 02-13-97 | 10.0 | 8.96 | 89.6% | 7.66 - 12.7 |
| m-dichlorobenzene | ug/L | EPA602 | 02-13-97 | 10.0 | 8.30 | 83.0% | 7.65 - 13.0 |
| Para-dichlorobenzene | ug/L | EPA602 | 02-13-97 | 10.0 | 7.80 | 78.0% | 8.04 - 12.8 |
| Benzene | ug/L | EPA602 | 02-13-97 | 10.0 | 8.45 | 84.5% | 7.97 - 12.0 |
| Chlorobenzene | ug/L | EPA602 | 02-13-97 | 10.0 | 11.7 | 117% | 7.22 - 12.8 |
| Ethylbenzene | ug/L | EPA602 | 02-13-97 | 10.0 | 9.68 | 96.8% | 7.87 - 12.3 |
| Toluene | ug/L | EPA602 | 02-13-97 | 10.0 | 8.83 | 88.3% | 8.20 - 12.2 |



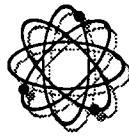
FLOWERS CHEMICAL LABORATORIES, INC.

Section 4

QCCS Sample Recovery

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885

| Analyte | Unit | Method | Date | QCCS Expected | QCCS Measured | Rec. % | Acceptable Limits |
|------------------------|------|--------|----------|------------------|------------------|-----------|----------------------|
| Xylene | ug/L | EPA602 | 02-13-97 | 30.0 | 28.1 | 93.7% | 25.4 - 37.0 |
| Methyl-tert-butylether | ug/L | EPA602 | 02-13-97 | 10.0 | 9.75 | 97.5% | 8.16 - 11.8 |
| Total_BTEX | ug/L | EPA602 | 02-13-97 | 60.0 | 55.0 | 91.7% | 50.6 - 73.1 |
| Isopropylether | ug/L | EPA602 | 02-13-97 | 40.0 | 40.0 | 100% | 37.3 - 43.5 |
| Acenaphthylene | ug/L | EPA625 | 02-14-97 | 100 | 72.4 | 72.4% | 42.9 - 95.9 |
| Acenaphthene | ug/L | EPA625 | 02-14-97 | 100 | 62.1 | 62.1% | 43.9 - 89.9 |
| Anthracene | ug/L | EPA625 | 02-14-97 | 100 | 71.0 | 71.0% | 45.6 - 93.2 |
| Benzo(a)anthracene | ug/L | EPA625 | 02-14-97 | 100 | 76.2 | 76.2% | 46.9 - 105 |
| Benzo(a)pyrene | ug/L | EPA625 | 02-14-97 | 100 | 90.1 | 90.1% | 42.3 - 102 |
| Benzo(b)fluoranthene | ug/L | EPA625 | 02-14-97 | 100 | 84.3 | 84.3% | 33.4 - 118 |
| Benzo(g,h,i)perylene | ug/L | EPA625 | 02-14-97 | 100 | 85.7 | 85.7% | 42.8 - 106 |
| Benzo(k)fluoranthene | ug/L | EPA625 | 02-14-97 | 100 | 67.2 | 67.2% | 43.5 - 119 |
| Chrysene | ug/L | EPA625 | 02-14-97 | 100 | 68.6 | 68.6% | 51.3 - 104 |
| Dibnz(a,h)anthracene | ug/L | EPA625 | 02-14-97 | 100 | 55.5 | 55.5% | 40.9 - 109 |
| Fluoranthene | ug/L | EPA625 | 02-14-97 | 100 | 85.5 | 85.5% | 49.7 - 102 |
| Fluorene | ug/L | EPA625 | 02-14-97 | 100 | 71.2 | 71.2% | 49.4 - 92.6 |
| Indn(1,2,3-cd)pyrene | ug/L | EPA625 | 02-14-97 | 100 | 101 | 101% | 37.5 - 113 |
| Naphthalene | ug/L | EPA625 | 02-14-97 | 100 | 58.9 | 58.9% | 44.7 - 87.7 |
| 1-Methyl-Naphthalene | ug/L | EPA625 | 02-14-97 | 100 | 63.2 | 63.2% | 47.0 - 98.2 |
| 2-Methyl-Naphthalene | ug/L | EPA625 | 02-14-97 | 100 | 62.7 | 62.7% | 43.7 - 98.7 |
| Phenanthrene | ug/L | EPA625 | 02-14-97 | 100 | 68.4 | 68.4% | 48.0 - 92.8 |
| Pyrene | ug/L | EPA625 | 02-14-97 | 100 | 62.9 | 62.9% | 47.0 - 107 |



**FLOWERS CHEMICAL
LABORATORIES, INC.**

Section 5

Standards Traceability

Client:
Project Number:
P.O. Number:
Date Sampled:
Lab Numbers:

S&ME-Charlotte

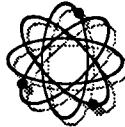
UNOCAFE835927785

9787-214

8-Feb-97

12880 - 12885

| Compound Name | Manufacturer Name | Manufacturer Lot # | Rec Lot # | Date Received | Valid Until | Prep Date | Prep Lot # | Prepared By | Prepared Until | Valid Until | t-test range | t-test Control Mean | t-test Control Std | Lot Mean | Lot Std |
|--------------------------------|---------------------------|--------------------|-----------|---------------|-------------------|-----------|------------|-------------------|-------------------|-------------|--------------|---------------------|--------------------|-------------|-------------|
| 1,1,1-trichloroethane | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 4.02 4.02 | >1.65 >1.65 | 0.979 0.979 | 0.079 0.079 | 1.04 1.04 | 0.083 0.083 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 12-20-97 | 637 668 | DO DO | 09-24-96 09-24-97 | 09-24-97 09-24-97 | 4.02 4.02 | >1.65 >1.65 | 0.979 0.979 | 0.079 0.079 | 1.04 1.04 | 0.083 0.083 |
| 1,1,2-trichloroethane | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 0.337 0.337 | >1.97 >1.97 | 0.992 0.992 | 0.418 0.418 | 1.05 1.05 | 0.082 0.082 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 0.337 0.337 | >1.97 >1.97 | 0.992 0.992 | 0.418 0.418 | 1.06 1.06 | 0.121 0.121 |
| 1,1-dichloroethane | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.73 3.73 | >1.65 >1.65 | 0.954 0.954 | 0.086 0.086 | 1.01 1.01 | 0.075 0.075 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.73 3.73 | >1.65 >1.65 | 0.954 0.954 | 0.086 0.086 | 1.01 1.01 | 0.075 0.075 |
| 1,1-dichloroethene | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.51 3.51 | >1.65 >1.65 | 0.942 0.942 | 0.093 0.093 | 0.995 0.995 | 0.117 0.117 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.51 3.51 | >1.65 >1.65 | 0.942 0.942 | 0.093 0.093 | 0.995 0.995 | 0.117 0.117 |
| 1,2-dichloroethane | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.77 3.77 | >1.65 >1.65 | 0.978 0.978 | 0.083 0.083 | 1.04 1.04 | 0.057 0.057 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.77 3.77 | >1.65 >1.65 | 0.978 0.978 | 0.083 0.083 | 1.04 1.04 | 0.057 0.057 |
| 1,2-dichloropropane | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.72 3.72 | >1.68 >1.68 | 1.02 1.02 | 0.096 0.096 | 1.03 1.03 | 0.089 0.089 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.72 3.72 | >1.68 >1.68 | 1.02 1.02 | 0.096 0.096 | 1.05 1.05 | 0.054 0.054 |
| Bromodichlormethane | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 2.57 2.57 | >1.76 >1.76 | 0.947 0.947 | 0.054 0.054 | 1.05 1.05 | 0.054 0.054 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 2.57 2.57 | >1.76 >1.76 | 0.947 0.947 | 0.054 0.054 | 1.05 1.05 | 0.054 0.054 |
| cis-1,3-dichloropropene | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.46 3.46 | >1.76 >1.76 | 0.977 0.977 | 0.063 0.063 | 1.05 1.05 | 0.069 0.069 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.46 3.46 | >1.76 >1.76 | 0.977 0.977 | 0.063 0.063 | 1.05 1.05 | 0.069 0.069 |
| Carbon tetrachloride | | | | | | | | | | | | | | | |
| QCCS | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.05 3.05 | >1.76 >1.76 | 0.995 0.995 | 0.074 0.074 | 1.05 1.05 | 0.093 0.093 |
| Matrix Spike | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | 3.05 3.05 | >1.76 >1.76 | 0.995 0.995 | 0.074 0.074 | 1.05 1.05 | 0.093 0.093 |



**FLOWERS CHEMICAL
LABORATORIES, INC.**

Section 5

Standards Traceability

Client:
Project Number:
P.O. Number:
Date Sampled:
Lab Numbers:

S&ME-Charlotte

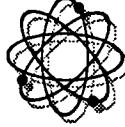
UNOCAFE835927785

9787-214

8-Feb-97

12880 - 12885

| Compound Name | Manufacturer Name | Lot # | Rec Lot # | Rec By | Date Received | Valid Until | Prep Lot # | Prep By | Date Prepared | Valid Until | t-test range | t-test Mean | Control Std | Control Lot | Lot Std |
|-----------------------------|---------------------------|----------------------|------------|----------|----------------------|----------------------|------------|----------|----------------------|----------------------|--------------|----------------|----------------|----------------|----------------|
| Standard | | | | | | | | | | | | | | | |
| Chloroform | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 0.966 0.966 | 0.053 0.053 | 0.961 0.951 | 0.041 0.014 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 6.90 | >1.76 | 0.966 0.966 | 0.053 0.053 | 0.961 0.961 |
| Dibromochloromethane | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 0.966 0.973 | 0.053 0.063 | 1.05 1.05 | 0.041 0.051 |
| QCCS | Matrix Spike | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 3.53 | >1.76 | 0.973 | 0.063 | 1.05 |
| Methylene chloride | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 0.973 | 0.063 | 1.05 | 0.051 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 3.53 | >1.76 | 0.973 | 0.063 | 1.05 |
| trans-1,3-dichloropropene | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 4.58 2.11 | 1.00 1.00 | 0.061 | 0.992 |
| QCCS | Matrix Spike | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 4.58 | >1.76 | 0.973 | 0.063 | 1.05 |
| Trichlorofluoromethane | Chem Service Ultra | 177-150A K-1145 | 606 601 | DO DO | 12-20-96 11-26-96 | 12-20-97 09-09-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 4.58 2.11 | 1.00 1.00 | 0.061 | 0.992 |
| QCCS | Matrix Spike | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 4.02 | >1.76 | 0.962 | 0.049 | 1.02 |
| r-1,2-dichloroethene | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 0.962 0.962 | 0.049 | 0.953 | 0.061 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 4.02 | >1.76 | 0.962 | 0.049 | 1.02 |
| Trichloroethene | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 0.962 0.962 | 0.049 | 1.02 | 0.081 |
| QCCS | Matrix Spike | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 4.02 | >1.76 | 0.962 | 0.049 | 1.02 |
| Tetrachloroethene | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 0.962 0.962 | 0.049 | 0.953 | 0.061 |
| QCCS | Matrix Spike | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 4.02 | >1.76 | 0.962 | 0.049 | 1.02 |
| 1,2-dibromo-3-chloropropane | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 0.962 0.962 | 0.049 | 0.953 | 0.061 |
| Chlorobenzene | Chem Service Accustandard | 177-150A A6120269 | 606 619 | DO DO | 12-20-96 02-10-97 | 12-20-97 02-01-98 | 637 668 | DO DO | 09-24-96 08-16-96 | 09-24-97 08-18-98 | >1.76 | 0.962 0.962 | 0.049 | 0.953 | 0.061 |
| QCCS | Matrix Spike | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 3.81 | >1.76 | 0.949 | 0.045 | 1.05 |
| Chloroethane | Chem Service | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | 4.00 | >1.76 | 0.949 | 0.045 | 1.05 |



**FLOWERS CHEMICAL
LABORATORIES, INC.**

Section 5

Standards Traceability

Client:
Project Number:
P.O. Number:
Date Sampled:
Lab Numbers:

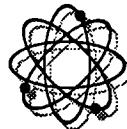
S&ME-Charlotte
UNOCAFE835927785

9787-214

8-Feb-97

12880 - 12885

| Compound Name | Manufacturer Name | Lot # | Rec Lot # | Date Received | Valid Until | Prep Lot # | Prep Date | Valid Until | t-test range | t-test Control | Control Std | Lot Mean | Lot Std |
|----------------------|--------------------|----------|-----------|---------------|-------------|------------|-------------|-------------|--------------|----------------|-------------|----------|---------|
| QCCS | Ultra Chem Service | K-1145 | 601 | DO 11-26-96 | 09-09-98 | 668 | DO 08-16-96 | 08-18-98 | >1.76 | 0.993 | 0.074 | 1.00 | 0.116 |
| Matrix Spike | Vinyl chloride | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.33 | 0.993 | 0.074 | 0.961 | 0.111 |
| QCCS | Matrix Spike | Ultra | K-1145 | 601 | DO 11-26-96 | 09-09-98 | 668 | DO 08-16-96 | 08-18-98 | | 1.01 | 0.065 | 0.976 |
| o-dichlorobenzene | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.92 | >1.75 | 1.03 | 0.068 | 0.982 |
| QCCS | Accustandard | A6120269 | 619 | DO 02-10-97 | 02-01-98 | 668 | DO 08-16-96 | 08-18-98 | 2.79 | >1.75 | 1.03 | 0.068 | 0.935 |
| Matrix Spike | m-dichlorobenzene | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.92 | >1.75 | 1.03 | 0.068 | 0.982 |
| QCCS | Accustandard | A6120269 | 619 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 4.53 | >1.75 | 1.00 | 0.059 | 0.974 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO 02-10-97 | 02-01-98 | 668 | DO 08-16-96 | 08-18-98 | 3.71 | >1.75 | 1.00 | 0.059 | 0.937 |
| Para-dichlorobenzene | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 4.53 | >1.75 | 1.00 | 0.059 | 0.974 |
| QCCS | Accustandard | A6120269 | 619 | DO 02-10-97 | 02-01-98 | 668 | DO 09-24-96 | 09-24-97 | 3.89 | >1.75 | 1.02 | 0.092 | 1.00 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.92 | >1.75 | 1.03 | 0.068 | 0.982 |
| o-dichlorobenzene | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.89 | >1.75 | 1.02 | 0.092 | 1.00 |
| QCCS | Accustandard | A6120269 | 619 | DO 02-10-97 | 02-01-98 | 668 | DO 08-16-96 | 08-18-98 | 3.25 | >1.75 | 1.02 | 0.092 | 0.976 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.89 | >1.75 | 1.02 | 0.092 | 1.00 |
| m-dichlorobenzene | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.92 | >1.75 | 1.03 | 0.068 | 0.982 |
| QCCS | Accustandard | A6120269 | 619 | DO 02-10-97 | 02-01-98 | 668 | DO 08-16-96 | 08-18-98 | 2.79 | >1.75 | 1.03 | 0.068 | 0.935 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.92 | >1.75 | 1.03 | 0.068 | 0.982 |
| Benzene | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 4.53 | >1.75 | 1.00 | 0.059 | 0.974 |
| QCCS | Accustandard | A6120269 | 619 | DO 02-10-97 | 02-01-98 | 668 | DO 08-16-96 | 08-18-98 | 3.71 | >1.75 | 1.00 | 0.059 | 0.937 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 4.53 | >1.75 | 1.00 | 0.059 | 0.974 |
| Chlorobenzene | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 3.89 | >1.75 | 1.02 | 0.092 | 1.00 |
| QCCS | Accustandard | A6120269 | 619 | DO 02-10-97 | 02-01-98 | 668 | DO 08-16-96 | 08-18-98 | 3.85 | >1.75 | 1.00 | 0.052 | 0.933 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO 12-20-96 | 12-20-97 | 637 | DO 09-24-96 | 09-24-97 | 4.86 | >1.75 | 1.00 | 0.052 | 1.05 |
| Ethylbenzene | Chem Service | 177-150A | 619 | DO 02-10-97 | 02-01-98 | 668 | DO 08-16-96 | 08-18-98 | 5.59 | >1.68 | 0.975 | 0.047 | 1.01 |
| QCCS | Accustandard | A6120269 | 619 | DO 02-10-97 | 02-01-98 | 668 | DO 08-16-96 | 08-18-98 | 5.59 | >1.68 | 0.975 | 0.047 | 1.01 |



**FLOWERS CHEMICAL
LABORATORIES, INC.**

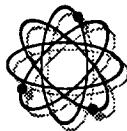
Section 5

Standards Traceability

Client:
 Project Number:
 P.O. Number:
 Date Sampled:
 Lab Numbers:

S&ME-Charlotte
 UNOCAFE835927785
 9787-214
 8-Feb-97
 12880 - 12885

| Compound Name | Manufacturer Name | Manufacturer Lot # | Rec Lot # | Date Received | Valid Until | Prep By | Date Prepared | Valid Until | t-test range | t-test Mean | Control Std | Control Mean | Lot Std | Lot Mean | | |
|------------------------|-------------------|--------------------|-----------|---------------|-------------|----------|---------------|-------------|--------------|-------------|-------------|--------------|---------|----------|-------|-------|
| Matrix Spike | Chem Service | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | | 1.02 | 0.059 | 1.19 | | |
| Toluene | Chem Service | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | | 1.02 | 0.059 | 1.19 | | |
| QCCS | Accustandard | A6120269 | 619 | DO | 02-10-97 | 02-01-98 | 668 | DO | 08-16-96 | 08-18-98 | 5.51 | >1.68 | 0.986 | 0.067 | 0.972 | 0.091 |
| Matrix Spike | Chem Service | 177-150A | 606 | DO | 12-20-96 | 12-20-97 | 637 | DO | 09-24-96 | 09-24-97 | | 1.02 | 0.059 | 1.19 | | |
| O-Xylene | Aldrich | 074521Z | 116 | DO | 01-05-95 | 01-05-99 | 625 | DO | 12-04-96 | 12-04-97 | 4.95 | >1.71 | 0.965 | 0.056 | 0.898 | 0.030 |
| QCCS | Aldrich | 074521Z | 116 | DO | 01-05-95 | 01-05-99 | 650 | DO | 01-23-97 | 01-23-98 | 3.43 | >1.71 | 0.965 | 0.056 | 1.05 | 0.062 |
| Matrix Spike | Aldrich | 074521Z | 116 | DO | 01-05-95 | 01-05-99 | 637 | DO | 09-24-96 | 09-24-97 | | 1.02 | 0.059 | 1.19 | | |
| M&P Xylene | Aldrich | 05249HG | 124 | DO | 01-05-95 | 01-05-99 | 625 | DO | 12-04-96 | 12-04-97 | 4.89 | >1.67 | 1.02 | 0.058 | 0.948 | 0.018 |
| QCCS | Aldrich | 05249HG | 124 | DO | 01-05-95 | 01-05-99 | 650 | DO | 01-23-97 | 01-23-98 | 4.93 | >1.66 | 1.01 | 0.058 | 1.06 | 0.020 |
| Matrix Spike | Aldrich | 05249HG | 124 | DO | 01-05-95 | 01-05-99 | 637 | DO | 09-24-96 | 09-24-97 | | 1.02 | 0.059 | 1.19 | | |
| Methyl-tert-butylether | Aldrich | 08065KG | 115 | DO | 01-05-95 | 01-05-99 | 625 | DO | 12-04-96 | 12-04-97 | 4.53 | >1.71 | 0.951 | 0.066 | 1.00 | 0.048 |
| QCCS | Aldrich | 08065KG | 115 | DO | 01-05-95 | 01-05-99 | 650 | DO | 01-23-97 | 01-23-98 | 1.86 | >1.70 | 0.951 | 0.066 | 1.10 | 0.050 |
| Matrix Spike | Aldrich | 08065KG | 115 | DO | 01-05-95 | 01-05-99 | 637 | DO | 09-24-96 | 09-24-97 | | 1.02 | 0.059 | 1.19 | | |
| Acenaphthylene | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 4.26 | >1.67 | 0.705 | 0.086 | 0.679 | 0.089 |
| QCCS | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 4.26 | >1.67 | 0.705 | 0.086 | 0.679 | 0.089 |
| Acenaphthene | QCCS | | | | | | | | | | | | | | | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.04 | >1.67 | 0.710 | 0.078 | 0.586 | 0.078 |
| Anthracene | QCCS | | | | | | | | | | | | | | | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.04 | >1.67 | 0.710 | 0.078 | 0.586 | 0.078 |
| Benz(a)anthracene | QCCS | | | | | | | | | | | | | | | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.61 | >1.67 | 0.761 | 0.109 | 0.693 | 0.081 |
| Benz(a)pyrene | QCCS | | | | | | | | | | | | | | | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 4.01 | >1.67 | 0.780 | 0.106 | 0.779 | 0.087 |
| Benz(b)fluoranthene | QCCS | | | | | | | | | | | | | | | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.61 | >1.67 | 0.761 | 0.109 | 0.693 | 0.081 |
| Benz(b)anthracene | QCCS | | | | | | | | | | | | | | | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.39 | >1.67 | 0.780 | 0.106 | 0.779 | 0.087 |
| Benz(b)pyrene | QCCS | | | | | | | | | | | | | | | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.39 | >1.67 | 0.780 | 0.106 | 0.779 | 0.087 |
| Benz(b)anthracene | QCCS | | | | | | | | | | | | | | | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 1.82 | >1.67 | 0.781 | 0.136 | 0.863 | 0.124 |

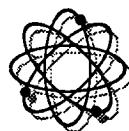


Section 5

Standards Traceability

FLOWERS CHEMICAL LABORATORIES, INC.

Client: S&ME-Charlotte
Project Number: UNOCAFE835927785
P.O. Number: 9787-214
Date Sampled: 8-Feb-97
Lab Numbers: 12880 - 12885



**FLOWERS CHEMICAL
LABORATORIES, INC.**

Section 5

Standards Traceability

Client:
Project Number:
P.O. Number:
Date Sampled:
Lab Numbers:

S&ME-Charlotte
UNOCAFE835927785

9787-214

8-Feb-97

12880 - 12885

| Compound Name | Manufacturer Name | Manufacturer Lot # | Rec Lot # | Rec By | Date Received | Valid Until | Prep Lot # | Prep By | Date Prepared | Valid Until | t-test range | t-test range | t-test range | Control Mean | Control Std | Lot Mean | Lot Std |
|----------------------|-------------------------------|--------------------|-----------|--------|---------------|-------------|------------|---------|---------------|-------------|--------------|--------------|--------------|--------------|-------------|----------|---------|
| QCCS | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.28 | >1.67 | 0.758 | 0.093 | 0.657 | 0.074 | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.28 | >1.67 | 0.758 | 0.093 | 0.657 | 0.074 | |
| Pyrene | | | | | | | | | | | | | | | | | |
| QCCS | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.16 | #2.00 | 0.809 | 0.118 | 0.678 | 0.077 | |
| Matrix Spike | Chem Service | 172-97A | 522 | CLS | 06-14-96 | 11-01-97 | 654 | CLS | 01-29-97 | 11-01-97 | 2.07 | #2.00 | 0.809 | 0.118 | 0.678 | 0.077 | |
| EPA625 Blank | Flowers Chemical Laboratories | Valid | 34 | JSF | 01-01-95 | 01-01-97 | 14 | JSF | 01-01-95 | 01-01-97 | | | | | | | |
| PAH Extraction Blank | Flowers Chemical Laboratories | Valid | 34 | JSF | 01-01-95 | 01-01-97 | 14 | JSF | 01-01-95 | 01-01-97 | | | | | | | |
| EPA625 Blank | EMS | Valid | 359 | FG | 12-08-95 | 12-08-96 | 380 | FG | 12-08-95 | 12-08-96 | | | | | | | |
| EPA601 Blank | Flowers Chemical Laboratories | Valid | 34 | JSF | 01-01-95 | 01-01-97 | 660 | DO | 02-01-97 | 01-01-98 | | | | | | | |
| EPA602 Blank | Flowers Chemical Laboratories | Valid | 34 | JSF | 01-01-95 | 01-01-97 | 660 | DO | 02-01-97 | 01-01-98 | | | | | | | |
| Hall Spike | Aldrich | 01920EY | 539 | DO | 01-01-95 | 01-01-99 | 549 | CST | 07-18-96 | 07-18-97 | 4.40 | >1.75 | 0.971 | 0.063 | 1.02 | 0.053 | |
| PID Spike | Aldrich | 11231EN | 538 | DO | 01-01-95 | 01-01-99 | 549 | CST | 07-18-96 | 07-18-97 | 8.69 | >1.69 | 1.02 | 0.031 | 1.01 | 0.098 | |



**CHAIN OF
CUSTODY RECORD
FOR**

UNOCAL *76*

Company Name: **Symtex - Charlotte**

Address: **9251 S. Pine Blvd.**

City: **Charlotte** State: **NC.** Zip Code: **28273**

Telephone: **FAX #:**

Project Name: **UNOC 9787-214**

UNOC Project Manager:

AFE #: **3335927785**

Site #: **Melbanc**

Report To: **Sampler: Gary Simcox**

QC Data: Level D (standard) Level C Level B Level A

Tumaround 10 Work Days 5 Work Days 3 Work Days Drinking Water

Time: 2 Work Days 1 Work Day 2-8 Hours Waste Water

CODE: Misc. Detect. Eval. Remed. Demol. Closure

UNPRESERVED Other

| Client Sample I.D. | Date/Time Sampled | Matrix Desc. | # of Cont. | Cont. Type | Laboratory Sample # |
|--------------------|-------------------|--------------|------------------|------------|---------------------|
| MW3 | 2/8/97 - 9 am | 4 | H ₂ O | 12880 | 1 |
| MW7 | 2/8/97 - 930 | 4 | H ₂ O | 81 | 1 |
| MW8 | 2/8/97 - 1000 am | 4 | H ₂ O | 82 | 1 |
| MW4 | 2/8/97 - 1030 | 4 | H ₂ O | 83 | 1 |
| Dmws5 | 2/8/97 - 1100 am | 4 | H ₂ O | 84 | 1 |
| Lwilians | 2/8/97 - 1130 | 4 | H ₂ O | 12885 | 1 |

PRESERVATIVES HCl HNO₃ H₂SO₄ ANALYSES REQUEST

NO. OF CONTAINERS UNPRESERVED 602 + MBPE - PPE

610 109 44°C

Relinquished By: Gary Simcox Date: **2/10/97** Time: **1100 AM** Received By: Michael Cook Date: **2/10/97** Time: **1100 AM**

Relinquished By: Michael Cook Date: **2/10/97** Time: **1100 AM** Received By: Date: Time:

Relinquished By: Date: **2/10/97** Time: **1100 AM** Received By: Date: Time:

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____

To be completed upon receipt of report:

- 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
- 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____

Page **1** of **1**

Date: **2/10/97** Time: **1100 AM**

Date: Time:

Date: **2/10/97** Time: **1100 AM**

Date: Time:

Date: **2/10/97** Time: **1100 AM**

Date: Time:

